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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,552	09/22/2003	Johannes Bartholomaeus	029310.50777CP	6176
23911	7590	04/07/2008	EXAMINER	
CROWELL & MORING LLP			TRAN, SUSAN T	
INTELLECTUAL PROPERTY GROUP				
P.O. BOX 14300			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/665,552	BARTHOLOMAEUS ET AL.	
	Examiner	Art Unit	
	S. Tran	1618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 23 January 2008.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-28 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-28 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

6) Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/23/08 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 27 and 28 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for an oral dosage form of tramadol and diclofenac, does not reasonably provide enablement for the specific release profiles recited in claims 27 and 28. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

Enablement is considered in view of the Wands factors (MPEP 2164.01 (a)). These include: breadth of the claims, nature of the invention, state of the prior art, amount of direction provided by the inventor, the level of predictability in the art, the

existence of working examples, quantity of experimentation needed to make or use the invention based on the content of the disclosure, and relative skill in the art. All of the factors have been considered with regard to the claim, with the most relevant factors being discussed below:

Breadth of the claims is broad. Independent claim 1 is directed to an oral formulation comprising combination of tramadol and diclofenac in separate subunits. Dependent claims 27 and 28 require specific release profiles from the dosage form of claim 1.

Amount of direction provided by the inventor, and quantity of experimentation needed to make or use the invention: independent claim 1 does not recite any structure of the dosage form that specifically leads to the claimed release profiles. Much less, the claims broadly recite just an oral dosage form. There are quite a large number of dosage forms out there that are suitable for oral administration. A review of the present specification shows that different dosage forms with different structures result in different release profiles (see examples 1-4). Further, the present specification does not teach how to precisely achieve the claimed release patterns or profiles given the multitudes of types of suitable dosage forms with multitudes types of coating polymers. The specification also fails to teach if different release profiles can be achieved from the same dosage form as recited in claim 1. The specification does not provide any guidance as to how one can achieve different types of release rates with the same amount of drug in a dosage form. Consequently, a burdensome amount of research would be required by one of ordinary skill in the art to bridge this gap.

As such, the practitioner would turn to trial and error experimentation in order to compose the claimed oral release dosage form of tramadol and diclofenac without guidance from the specification or the prior art.

The relative skill of those in the art: the skill of one of ordinary skill in the art is very high, e.g., Ph.D. and M.D. level technology.

Claim Rejections - 35 USC § 103

Claims 1-9, 11-16, 20, 21, 24 and 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Voss et al. US 4,690,927, in view of On US 6,319,514.

Voss teaches a pharmaceutical dosage form comprising mixture of diclofenac sodium and salt of codeine in a weight ratio of about 1:1 to 3:1 (abstract; and claims 1-3). The dosage is suitable for oral administration in the form of granule, dragee, tablet, layered tablet, and capsule (column 2, lines 11-64). The two active substances can be formulated in separate layers in a tablet, or as granules incorporated into a capsule (ID). The final dosage form can be film coated with hydroxypropylmethyl cellulose (example 1).

Voss is only deficient in the sense that Voss teaches codeine instead of tramadol as a narcotic compound. However, On teaches a narcotic analgesic includes codeine phosphate, tramadol hydrochloride, and related analogues having similar analgesic property (column 3, lines 4-9). Thus, it would have been obvious to one of ordinary skill in the art to, by routine experimentation modify the combination dosage form of Voss to combine diclofenac with tramadol to obtain the claimed invention. This is because On

teaches the equivalency or at least similar analgesic property between codeine and tramadol (ID).

Claims 1-9, 11-16, 20, 21, 24 and 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Voss et al. US 4,690,927, in view of Raffa EP 0 546 676 A1.

Voss is relied upon for the reason stated above. Voss does not expressly teach the use of tramadol as a narcotic compound.

Raffa teaches tramadol and its salt such as tramadol hydrochloride is an "atypical" opioid analgesic, a very unique drug that when combine with an NSAID, will exhibit superadditive analgesia (page 2, lines 20-21; and page 3, lines 5-7). Thus, it would have been obvious to one of ordinary skill in the art to optimize the combination of Voss to combine diclofenac with tramadol to obtain the claimed invention. This is because Raffa teaches a preferred selection of tramadol over codeine to reduce side effects associated with opioid analgesics (page 2, lines 4-28), and because Voss teaches the desirability of combining diclofenac with an opioid analgesic compound to achieve a more intense therapeutic effect but eliminating side effects (column 2, lines 5-10).

Claims 1-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Voss et al. in view of Raffa or On, and Oshlack et al. US 6,077,533.

Voss is relied upon for the reasons stated above. Voss does not teach the claimed coating materials.

Oshlack teaches a multi-particulate product comprising beads of immediate release active core coated with an extended release coating (abstract; and column 6, lines 8-38). Extended release coating comprises the claimed polymer (column 10, lines 1-67). Extended release coating can be applied as a layer to the immediate release core, or as a controlled release matrix (columns 12-13; and column 14, lines 1-2). Oshlack further teaches the claimed release profile (column 9, lines 23-46). Active includes tramadol, and nsaid such as diclofenac sodium (column 5, lines 12-25).

Thus, it would have been obvious to one of ordinary skill in the art to modify the dosage form of Voss using the coating composition of Oshlack to obtain the claimed invention. This is because Oshlack teaches a coating composition that is compatible with both diclofenac and tramadol, because Oshlack teaches a coating formulation that is capable of producing a strong, continuous film that is smooth and elegant capable of supporting pigments and other coating additives, non-toxic, inert, and tack-free (column 9, lines 18-22), and this is because Voss teaches the desirability of obtaining a suitable oral dosage form with reduce side-effects.

Response to Arguments

Applicant's arguments filed 01/28/08 have been fully considered but they are not persuasive.

Applicant argues that Raffa does not explicitly disclose the claimed combination of tramadol and diclofenac. Moreover, Raffa provides no indication that there might be any problem arising from the direct combination of tramadol and diclofenac.

However, in response to applicant's argument, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). In the present case, Raffa is relied upon solely for the teaching that tramadol is a preferred narcotic analgesic over codeine.

Applicant argues that Oshlack does not explicitly disclose the claimed combination of tramadol and diclofenac nor the problem arising from the direct combination of tramadol and diclofenac.

However, in response to applicant's argument, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). Oshlack is relied upon solely for the teaching of a coating formulation that is capable of producing a strong, continuous film that is smooth and elegant capable of supporting pigments and other coating additives, non-toxic, inert, and tack-free.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Tran whose telephone number is (571) 272-0606. The examiner can normally be reached on M-F 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Hartley can be reached on (571) 272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. Tran/
Primary Examiner, Art Unit 1618